BookletChartTM

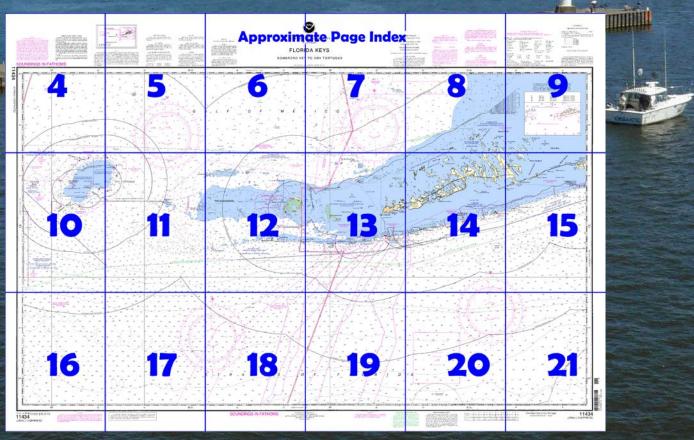
NOAR NO ATMOSPHERIC PLANMISTRATION SO DEPARTMENT OF COMMERCE

Florida Keys – Sombrero Key to Dry Tortugas

A reduced-scale NOAA nautical chart for small boaters When possible, use the full-size NOAA chart for navigation.



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



Published by the National Oceanic and Atmospheric Administration National Ocean Service Office of Coast Survey

<u>www.NauticalCharts.NOAA.gov</u> 888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart[™]?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

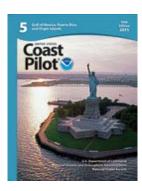
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=114 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=114 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=114 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=114 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=114 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=114 https://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=114 <a href="https://www.nauticalcharts.noaa.gov/nsd/searchbycharts.noaa.gov/nsd/search



(Selected Excerpts from Coast Pilot)

The area from Key West for 63 miles W to Dry Tortugas is a continuation of the keys with their intervening reefs and shoals. The keys are low, small in extent, and, except for the Dry Tortugas, generally covered with dense growths of mangrove. About 5 miles S of the main chain of keys and reefs is a line of reefs, shoals, and generally broken ground which rises abruptly from the deep water of the Straits of Florida. Buoys, lights, and daybeacons

mark the outer reefs. Deep-draft vessels standing along the keys should avoid this broken ground and also the areas with depths less than 10 fathoms, S and W of Rebecca Shoal and the Dry Tortugas.

Currents are variable along the edge of the reefs, being influenced by winds, by differences of barometric pressure in the Gulf and the Straits of Florida, and by the tides. At times there are strong tidal currents through the passages between the keys.

Between Key West Harbor and Boca Grande Channel there is an extensive shoal area in which are several small scattered keys. The white sand beaches of the southernmost keys are easily discernible from seaward. A large house on **Ballast Key** (24°31.3'N., 81°57.8'W.) is reported to be prominent.

A small-craft channel, marked by private daybeacons, extends through the shoal area from Key West to the N side of Boca Grande Key. The channel has a reported controlling depth of 5 feet except S of Mule Key, near Key West, where the controlling depth is 2 feet. Local knowledge is advised. In 2009, unexploded ordinance was reported about ½ mile N of Boca Grande Key within a 200 yard radius of a visible wreck at 24°32'37"N., 81°59'56"W. Mariners are advised not to anchor in this area; caution is advised.

Key West National Wildlife Refuge extends W from Key West to Marquesas Keys.

Boca Grande Channel, between **Boca Grande Key** and the Marquesas Keys, is about 15 miles W from Key West. The channel has a controlling depth of about 11 feet from the Straits of Florida to the Gulf of Mexico and is marked by daybeacons, but is seldom used except by local boats of 6 feet or less draft. The channels through Key West Harbor are deeper and better marked, and offer a shorter passage from the Gulf to the Straits of Florida.

Currents.—In Boca Grande Channel the average velocity of the current is 1.2 knots; the flood current sets N and the ebb SSW. The velocity of the current is considerably influenced by the winds.

The **Marquesas Keys**, on the W side of Boca Grande Channel, are 4 miles in extent and surrounded by a large shoal area. The northernmost key is the largest and has a strip of sandy beach free of mangrove.

Mooney Harbor is a central lagoon within Marquesas Keys. The main entrance, close W of Gull Keys, was reported closed by shoaling in 1987. It is reported, however, that good, protected anchorage can be found in 1 to 4 feet with good holding ground in a small lagoon close SW of Mooney Harbor Key. Another good anchorage was reported SE of Mooney Harbor with a 4-foot entrance marked by pipes and deeper water within. Entrance into the central lagoon is restricted by a shoal. The lagoon should be entered only during daylight hours and caution should be exercised.

Ellis Rock, 4 miles NW of the Marquesas Keys, is covered 7 feet and surrounded by depths of 21 to 39 feet; the rock is marked by a light. Danger zones of bombing and strafing target areas, centered on targets, are in the vicinity of Marquesas Keys. (See 334.620, chapter 2, for limits and regulations.)

A large shoal, the W part of which is known as **The Quicksands**, extends 18 miles W from the Marquesas Keys. The shoal is about 4.5 miles wide between the 18-foot curves and has a least depth of 2 feet over its E part. A strong E to W current was observed in the area of The Quicksands in 1975.

New Ground, a shoal with a least depth of 4 feet at its W end, is about 6 miles long. It extends in an E-W direction about 3.5 miles N of The Quicksands. A light is on the W side of the 4-foot spot. The water shoals abruptly on the N side of New Ground, and vessels should stay in depths greater than 13 fathoms to ensure clearing the shoal.

U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC New Orleans

Commander 8th CG District

(504) 589-6225

New Orleans, LA

orrected through NM Jun. 14/08 orrected through LNM Jun. 17/08

HEIGHTS

Heights in feet above Mean High Water.

Mercator Projection Scale 1:180 000 at Lat 24° 50°

North American Datum of 1983 (World Geodetic System 1984)

SOUNDINGS IN FATHOMS AT MEAN LOWER LOW WATER

NOTE S

NOTE S
Regulations for Ocean Dumping Sites are contained in 40 CFR, Parts 220-229. Additional information concerning the regulations and requirements for use of the sites may be obtained from the Environmental Protection Agency (EPA). See U.S. Coast Pilots appendix for addresses of EPA offices. Dumping subsequent to the survey dates may have reduced the depths shown.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Teatable Kev. FL WWG-60 162 45 MHz WXJ-95 162.40 MHz Key West, FL

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

POLLUTION REPORTS

Report all spills of oil and hazardous sub stances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S Coast Guard facility if telephone communication is impossible (33 CFR 153).

PARTICULARLY SENSITIVE SEA AREA

The Particularly Sensitive Sea Area (PSSA) is indicated by a dashed green limiting line highlighted with a green screened band or by a green screened band used in conjunction with the line symbol for other limits with which the PSSA coincides. A PSSA is an environmentally sensitive area around which mariners should exercise extreme caution. See U.S. Coast Pilot volumes for information regarding this area.

CALITION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the U. S. Coast Guard, and National Geospatial-Intelligence Agency

BADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas

Pipeline Area

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and sub-marine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme become exposed. Martners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.

Covered wells may be marked by lighted or

Table of Selected Chart Notes

AΒ

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National

Geospatial-Intelligence Agency Publication 117.
Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:

(Accurate location) o(Approximate location)

NOTE A

Navigation regulations are published in Chapter 2, U.S Coast Pilots 4 & 5. Additions or revisions to Chapter 2 are pub lished in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commande 7th Coast Guard District in Miami, Florida, or at the Office of the District Engineer, Corps of Engineers in Jacksonville

Refer to charted regulation section numbers

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System of 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 do not require conversion to NAD 83 for plotting on this chart.

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coas Guard Light List and U.S. Coast Pilot for details.

Loran-C correction tables published by the National Geospatial-Intelligence Agency or others should not be used with this chart. The lines of position shown have been adjusted based on survey data. Every effort has been made to meet the ¼ nautical mile accuracy criteria established by the U.S. Coast Guard. Mariners are cautioned not to rely solely on

DANGER AREA

Area is open to unrestricted surface navigation but all vessels are cautioned neither to anchor, dredge, trawl lay cables, bottom, nor conduct any other similar type o operation because of residual danger from mines on the

LORAN-C

GENERAL EXPLANATION

letter designators). M..... Master W..... Secondary X Secondary
Y Secondary Secondary

EXAMPLE: 7980-X

HURRICANES AND TROPICAL STORMS

Hurricanes, tropical storms and other major storms may cause considerable damage to marine structures, aids to navigation and moored vessels, resulting in submerged debris in unknown locations.

Charted soundings, channel depths and shoreline may not reflect actual conditions following these storms. Fixed aids to navigation may have been damaged or destroyed. Buoys may have been moved from their charted positions, damaged, sunk, extinguished or otherwise made inoperative. Mariners should not rely upon the position or operation of an aid to navigation. Wrecks and submerged obstructions may have been displaced from charted locations. Pipelines may have become uncovered

Mariners are urged to exercise extreme caution and are requested to report aids to navigation discrepancies and hazards to navigation to the nearest United States Coast Guard

PROHIBITED AREAS

(Areas to be avoided)

Under the Florida Keys National Marine Sanctuary and Protection Act, Pub. L. 101-605 and IMO advisory SN/Circ. 145, these areas are to be avoided by tank vessels and vessels greater than 50 meters in length.

NO-DISCHARGE ZONE, 40 CFR 140

All Florida State waters within the Florida Keys National Marine Sanctuary are designated as a No-Discharge Zone (NDZ). Under the Clean Water Act, Section 312, all vessels operating within a No-Discharge Zone (NDZ) are completely prohibited from discharging any sewage, treated or untreated, into the waters. All vessels with an installed marine sanitation device (MSD) that are navigating, moored, anchored, or docked within a NDZ must have the MSD disabled to prevent the overboard discharge of sewage (treated or untreated) or install a holding tank. Regulations for the NDZ are contained in the U.S Coast Pilot. Additional information concerning the regulations and requirements may be obtained from the Environmental Protection Agency (EPA) web site: http://www.epa.gov/owow/oceans/regulatory/vessel_sewage/.

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have beer banded in this diagram by date and type of survey. Channels maintained banded in this diagram by date and type of strivey. Channels Thanhamed by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, <u>United States Coast Pilot.</u>

International Regulations for Preventing Collisions at Sea, 1972. The entire area of this chart falls seaward of the COLREGS Demarcation Line

NOTE X

Within the 12-nautical mile Territorial Sea, established by Presidential Proclamation, some Federal laws apply. The Three Nautical Mile Line, previously identified as the outer limit of the territorial sea, is retained as it continues to depict the jurisdictional outer limit of the territorial sea, is retained as it continues to depict the jurisdictional limit of the other laws. The 9-nautical mile Natural Resource Boundary off the Gulf coast of Florida, Texas, and Puerto Rico, and the Three Nautical Mile Line elsewhere remain in most cases the inner limit of Federal fisheries jurisdiction and the outer limit of the jurisdiction of the states. The 24-nautical mile Contiguous Zone and the 200-nautical mile Exclusive Economic Zone were established by Presidential Proclamation. Unless fixed by treaty or the U.S. Supreme Court, these maritime limits are subject to modification. to modification.

| ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.) Aids to Navigation (lights are white unless otherwise indicated): | | | | | | | |
|---|--|--|--|---|--|--|--|
| AIGS to havigation (lights a AERO aeronautical AI alternating B black Bn beacon C can DIA diaphone F fixed | G green IQ interru Iso isoph LT HO lij M nautici m minute | pted quick ase ghthouse al mile | Mo morse code N nun OBSC obscured Oc occulting Or orange Q qulck B red | R TR radio tower Rot rotating s seconds SEC sector St M statute miles VQ very quick W white | | | |
| FI flashing | Mkr marker | | Ra Ref radar reflector | WHIS whistle | | | |
| Bottom characteristics: Blds boulders bk broken Cy clay | Co coral G gravel Grs grass | gy gray h hard M mud | R Bn radiobeacon Oys oysters Rk rock S sand | Y yellow so soft Sh shells sy sticky | | | |
| Miscellaneous: AUTH authorized ED existence doubt 21, Wreck, rock, ob | ful PA pos | obstruction sition approximate al swept clear to the | PD position doubtful Rep reported depth indicated. | Subm submerged | | | |

(2) Rocks that cover and uncover, with heights in feet above datum of soundings

NO-DISCHARGE ZONE, 40 CFR 140
All Florida State waters within the Florida Keys National All Florida State waters within the Florida Keys National Marine Sanctuary are designated as a No-Discharge Zone (NDZ). Under the Clean Water Act, Section 312, all vessels operating within a No-Discharge Zone (NDZ) are completely prohibited from discharging any sewage, treated or untreated, into the waters. All vessels with an installed marine sanilation device (MSD) that are navigating, moored, anchored, or docked within a NDZ must have the MSD disabled to prevent the overboard discharge of sewage (treated or untreated) or install a holding tank Regulations for the NDZ are contained in the U.S Coast Pilot. Additional information concerning the regulations and requirements may be obtained from the Environmental Protection Agency (EPA) web site: http://www.epa.gov/owow/cceans/regulatory/vessel_sewage/.

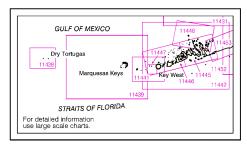
HURRICANES AND TROPICAL STORMS

Hurricanes, tropical storms and other major storms may cause considerable damage to marine structures, aids to navigation and moored vessels, resulting in submerged debris in unknown locations.

Charted soundings, channel depths and shoreline may not reflect actual conditions following these storms. Fixed aids to navigation may have been damaged or destroyed. Buoys may have been moved from their charted positions, damaged, sunk, extinguished or otherwise made inoperative. Mariners should not rely upon the position or operation of an aid to navigation. Wrecks and submerged obstructions may have been displaced from charted locations. Pipelines may have become uncovered or moved.

Mariners are urged to exercise extreme caution and are

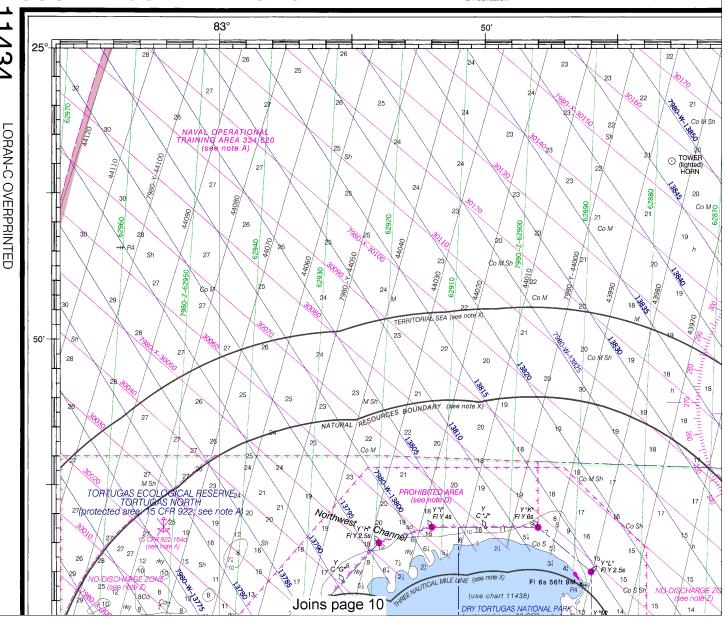
requested to report aids to navigation discrepancies and hazards to navigation to the nearest United States Coast Guard



NOTE X

Within the 12-nautical mile Territorial Sea, established by Presidential Proclamation, some Federal laws apply. The Three Nautical Mile Line, previously identified as the outer limit of the territorial sea, is retained as it continues to depict the jurisdictional limit of the other laws. The 9-nautical mile Natural Resource Boundary off the Gulf coast of Florida, Texas, and Puerto Rico, and the Three Nautical Mile Line elsewhere remain in most cases the inner limit of Federal fisheries jurisdiction and the outer limit of the jurisdiction of the states. The 24-nautical mile Contiguous Zone and the 200-nautical mile Exclusive Economic Zone were established by Presidential Proclamation. Unless fixed by treaty or the U.S. Supreme Court, these maritime limits are subject to modification.

SOUNDINGS IN FATHOMS



AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the U. S. Coast Guard, and National Geospatial-Intelligence Agency.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at

Teatable Key, FL Key West, FL

WWG-60 WXJ-95

162.45 MHz 162.40 MHz

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National

Geospatial-Intelligence Agency Publication 117. Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:

⊙(Accurate location) o(Approximate location)

HEIGHTS

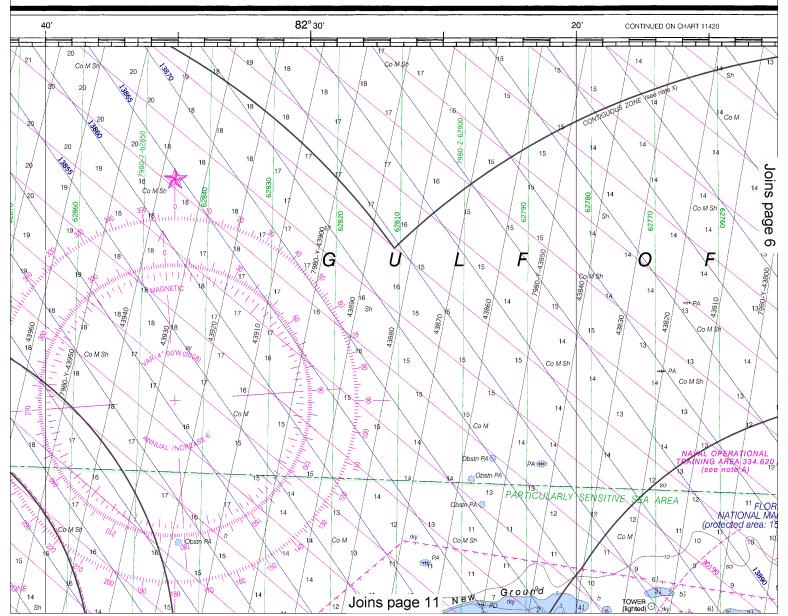
Heights in feet above Mean High Water.

NOTE S

Regulations for Ocean Dumping Sites are contained in 40 CFR, Parts 220-229. Additional information concerning the regulations and requirements for use of the sites may be obtained from the Environmental Protection Agency (EPA). See U.S. Coast Pilots appendix for addresses of EPA offices. Dumping subsequent to the survey dates may have reduced the depths shown.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (foil free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).



This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:240000. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.



CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National

Geospatial-Intelligence Agency Publication 117. Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:

HEIGHTS

Heights in feet above Mean High Water.

NOTE S

Regulations for Ocean Dumping Sites are contained in 40 CFR, Parts 220-229. Additional information concerning the regulations and requirements for use of the sites may be obtained from the Environmental Protection Agency (EPA). See U.S. Coast Pilots appendix for addresses of EPA offices. Dumping subsequent to the survey dates may have reduced the depths shown.

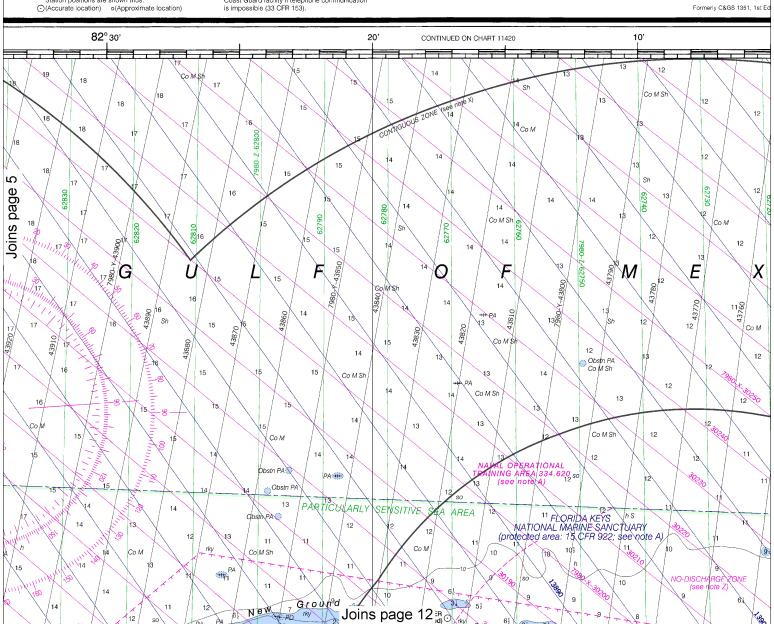
POLLUTION REPORTS

Report all spills of oil and hazardous sub-stances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication

UNITED STATE

FLORI

SOMBRERO KEY







ES - GULF COAST

ORIDA

DA KEYS

TO DRY TORTUGAS

d., June 1922 D-1952-786 KAPP 373

Mercator Projection Scale 1:180,000 at Lat. 24° 50'

North American Datum of 1983 (World Geodetic System 1984)

SOUNDINGS IN FATHOMS AT MEAN LOWER LOW WATER

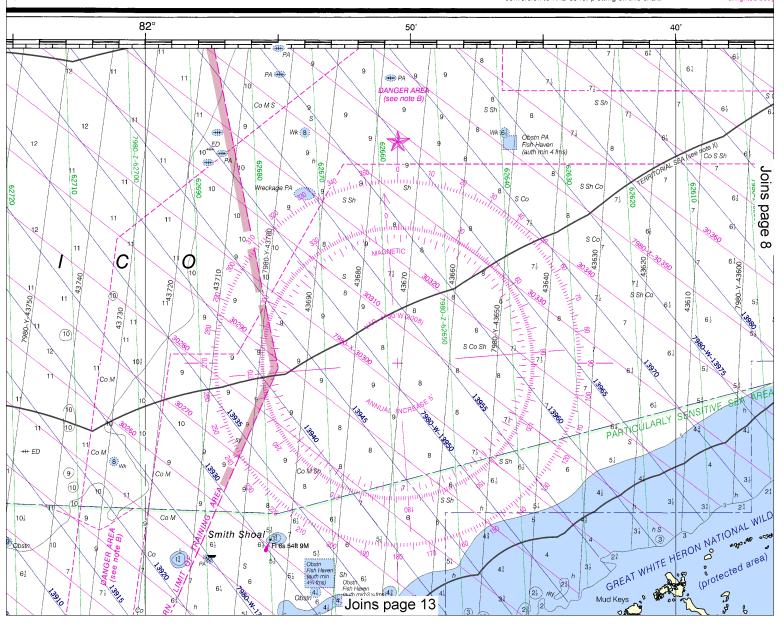
Additional information can be obtained at nauticalcharts.noaa.gov.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System of 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 do not require conversion to NAD 83 for plotting on this chart.

SUBMARII Charted s cables and su

this chart. No



Mercator Projection Scale 1:180,000 at Lat. 24° 50'

North American Datum of 1983 (World Geodetic System 1984)

SOUNDINGS IN FATHOMS AT MEAN LOWER LOW WATER

Additional information can be obtained at nauticalcharts.noaa.gov

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System of 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 do not require CAUTION

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme become exposed, manners smould use examine caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.

Covered wells may be marked by lighted or

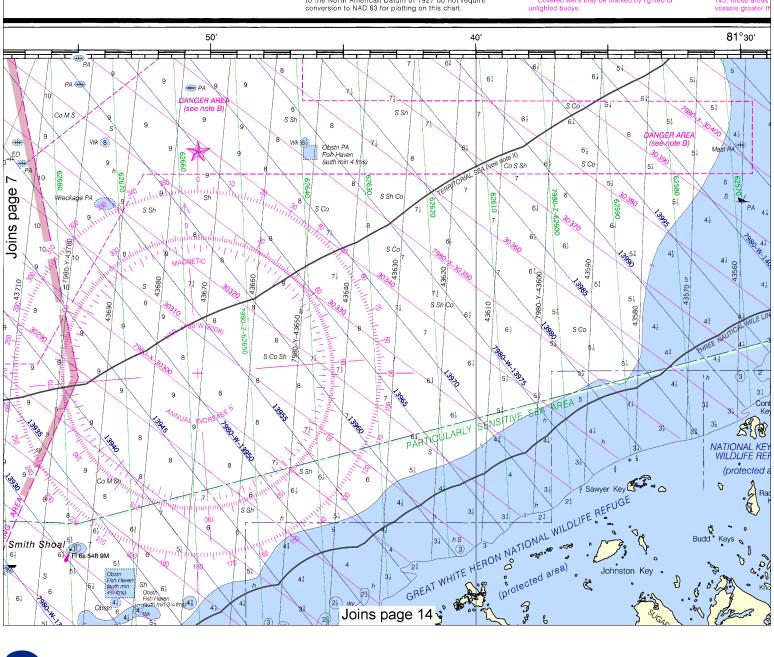
unlighted buoys

Navigation re Coast Pilots 4 & 5 lished in the Notice regulations may b

Refer to char

Area is open vessels are caut lay cables, botto operation becaus

Under the Flo Protection Act, P 145, these areas





S

gulations are published in Chapter 2, U.S. Additions or revisions to Chapter 2 are pub-e to Mariners. Information concerning the obtained at the Office of the Commander, neer, Corps of Engineers in Jacksonville,

ted regulation section numbers.

NOTE B DANGER AREA

to unrestricted surface navigation but all tioned neither to anchor, dredge, trawl, m, nor conduct any other similar type of se of residual danger from mines on the

NOTE D PROHIBITED AREAS

(Areas to be avoided)

ida Keys National Marine Sanctuary and ib. L. 101-605 and IMO advisory SN/Circ are to be avoided by tank vessels and an 50 meters in length

COLREGS, 80.740 (see note A)

International Regulations for Preventing Collisions at Sea, 1972. The entire area of this chart falls seaward of the COLREGS Demarcation Line.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.) Aids to Navigation (lights are white unless otherwise indicated): AEBO aeronautical G green Mo morse code

| Al alternating | IQ interrupted quick | | N nun | Rot rotating |
|-------------------------|--------------------------|----------|------------------------|--------------------|
| B black | lso isoph | nase | OBSC obscured | s seconds |
| Bn beacon | LT HO I | ghthouse | Oc occulting | SEC sector |
| C can | M nautic | al mile | Or orange | St M statute miles |
| DIA diaphone | m minut | 98 | Q quick | VQ very guick |
| F fixed | MICRO TR microwave tower | | R red | W white |
| FI flashing | Mkr marker | | Ra Ref radar reflector | WHIS whistle |
| | | | R Bn radiobeacon | Y yellow |
| Bottom characteristics: | | | | |
| Blds boulders | Co coral | gy gray | Ovs ovsters | so soft |
| ble broken | G gravel | b bard | Dk rock | Ch aballa |

AUTH authorized ED existence doubtful PD position doubtful PA position approximate Rep reported

Cy clay

Miscellaneous

21. Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings

LORAN-C **GENERAL EXPLANATION**

LORAN-C FREQUENCY......100kHz PULSE REPETITION INTERVAL letter designators). M W Master . Secondary . Secondary

Secondary

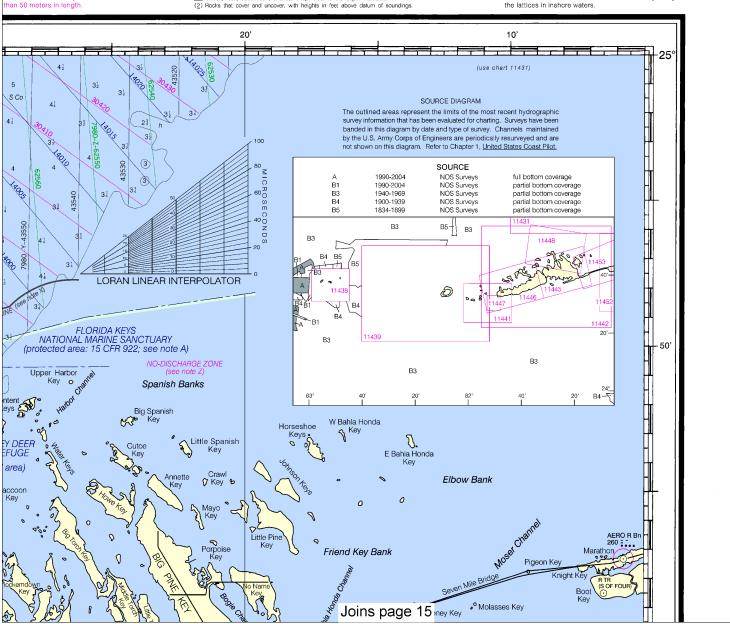
Secondary

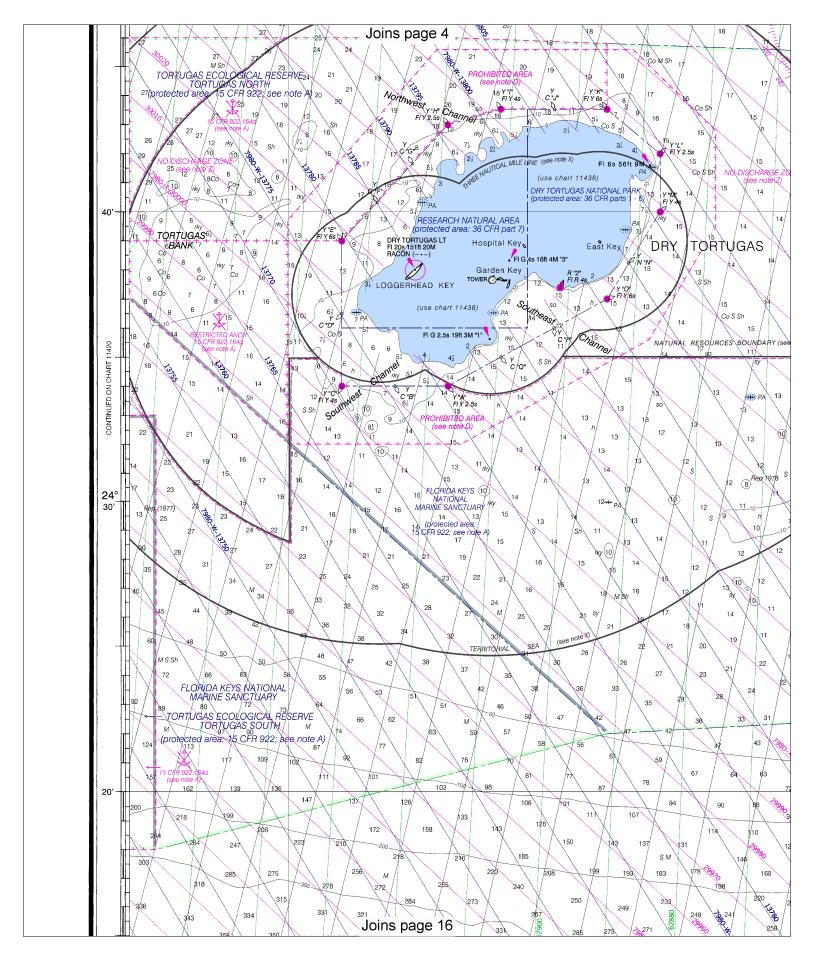
EXAMPLE: 7980-X

R TR radio tower

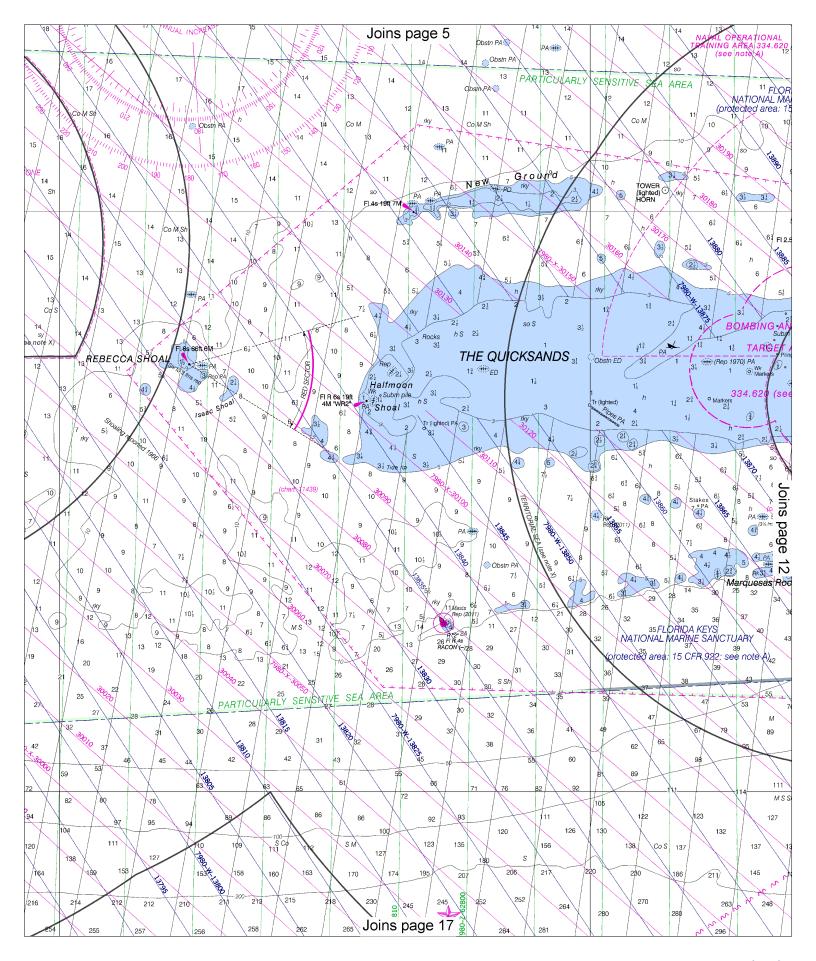
RATES ON THIS CHART 7980-W 7980-X 7980-Y 7980-Z

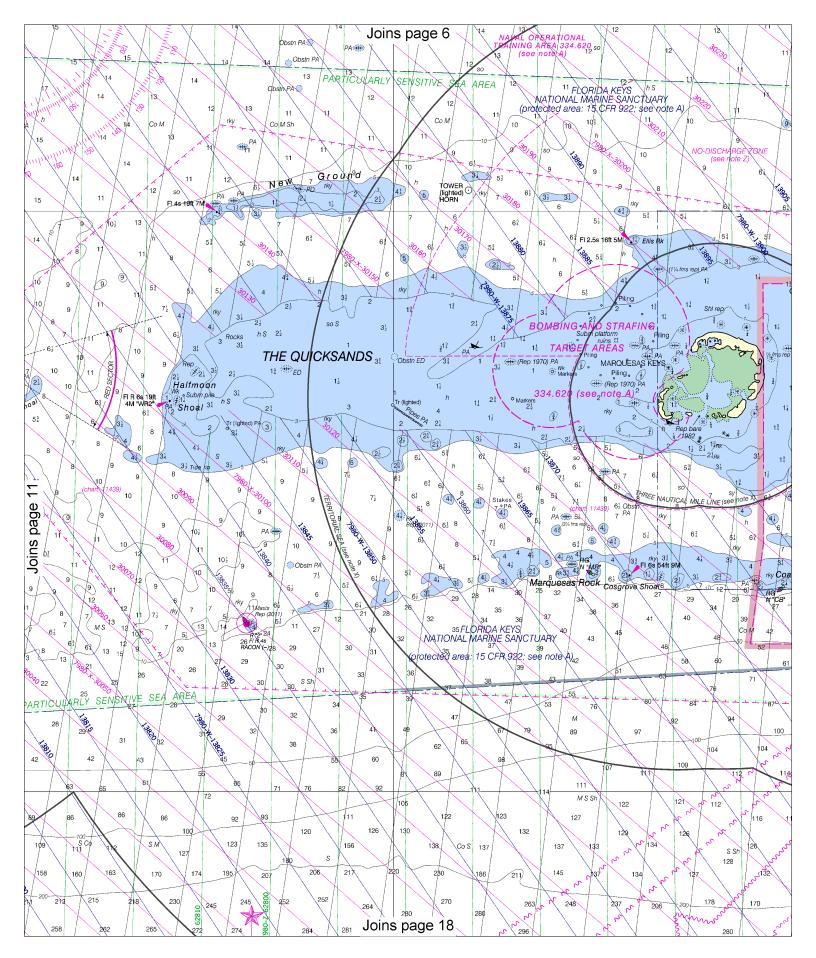
Loran-C correction tables published by the National Geospatial-Intelligence Agency or others should not be used with this chart. The lines of position shown have been adjusted based on survey data. Every effort has been made to meet the ¼ nautical mile accuracy criteria established by the U.S. Coast Guard. Mariners are cautioned not to rely solely on



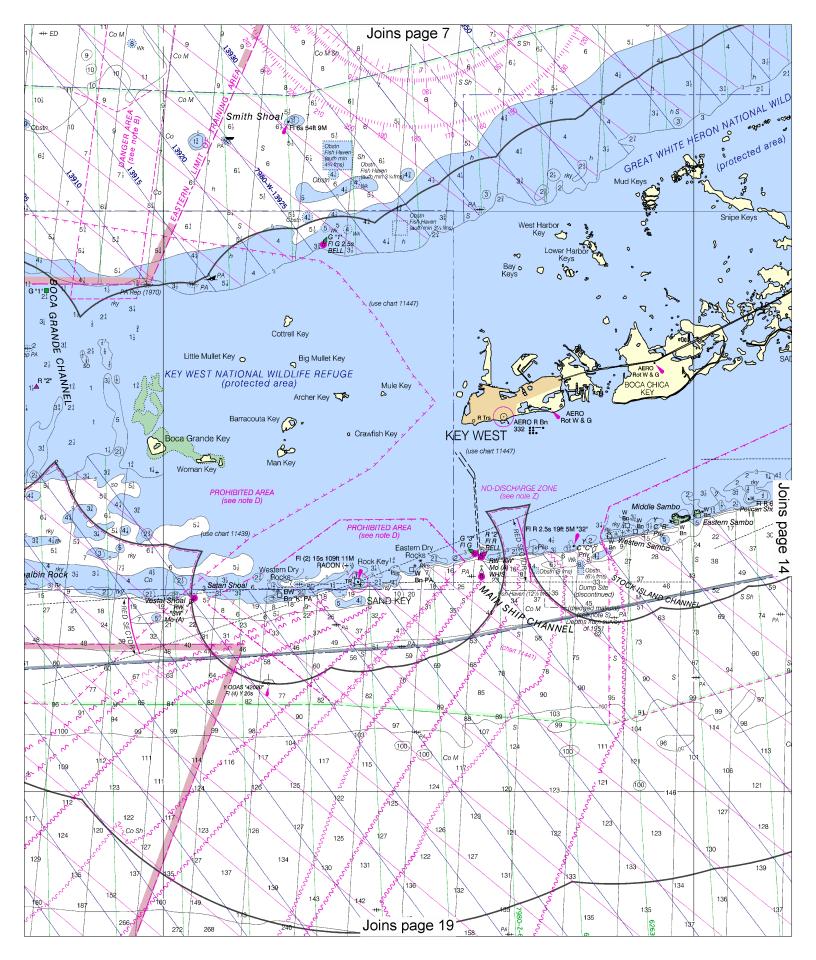


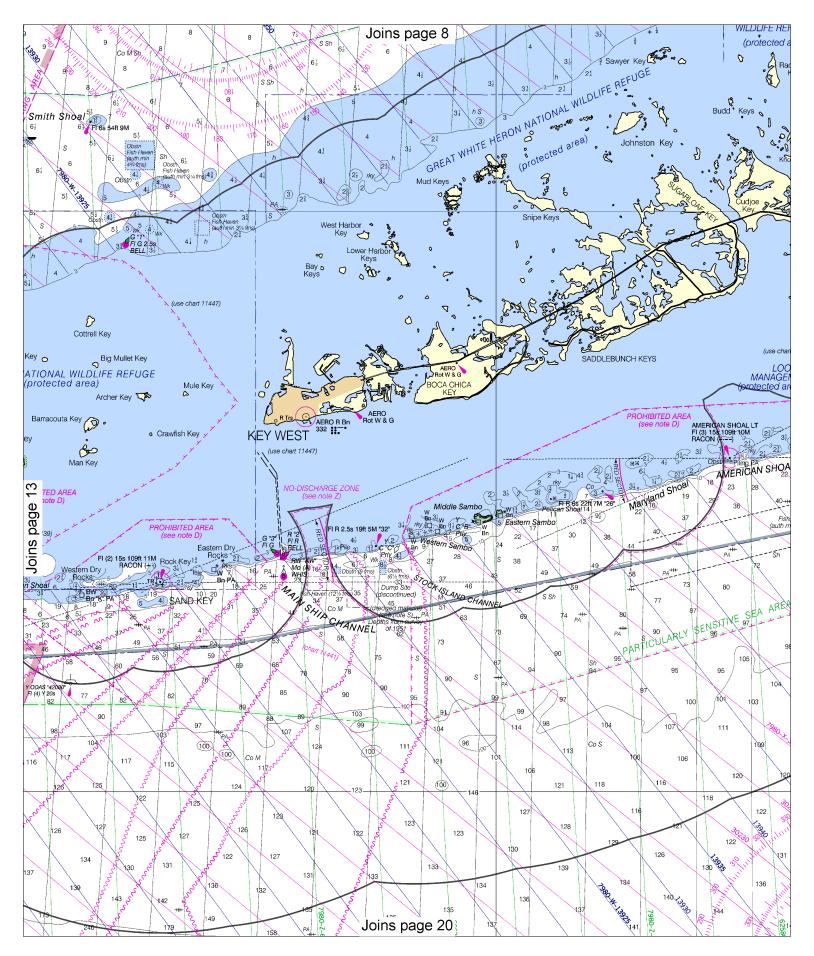
10



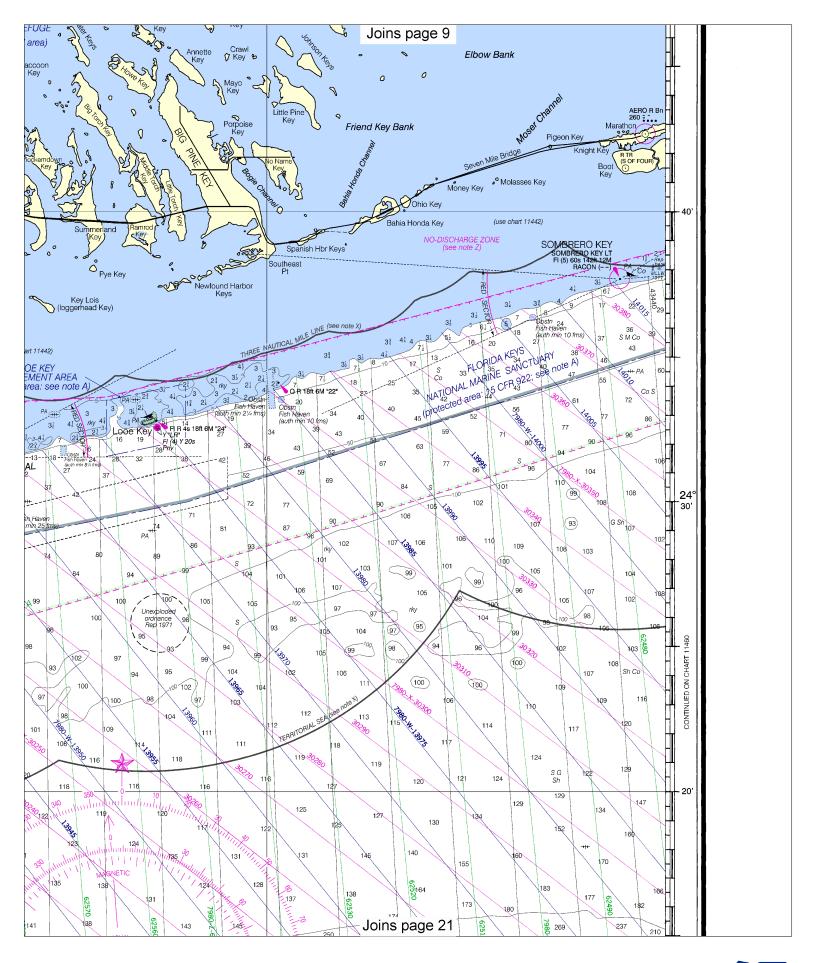


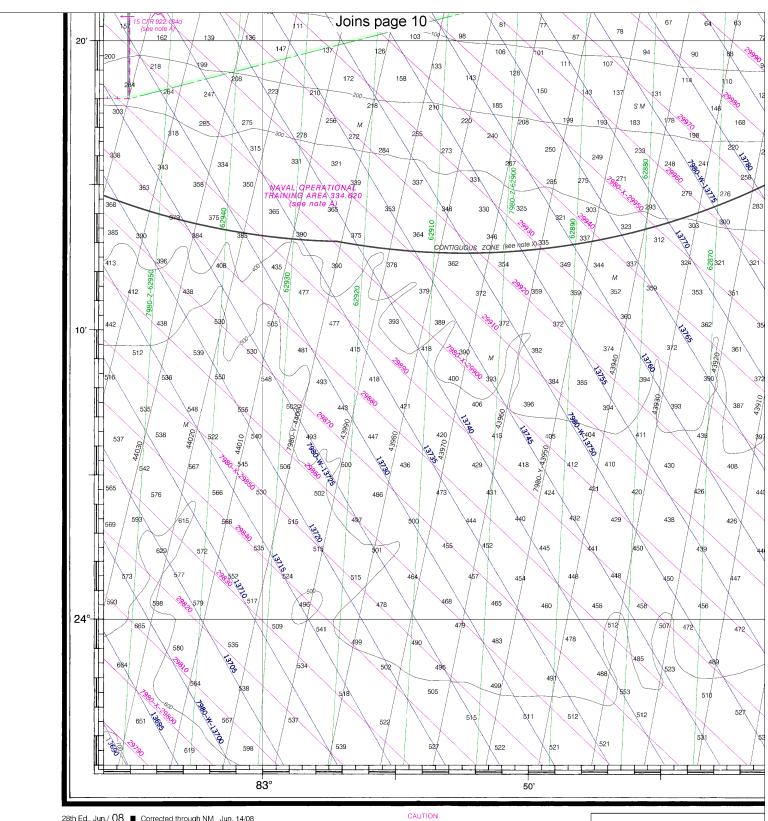
12





14





28th Ed., Jun./ 08 Corrected through NM Jun. 14/08 Corrected through LNM Jun. 17/08

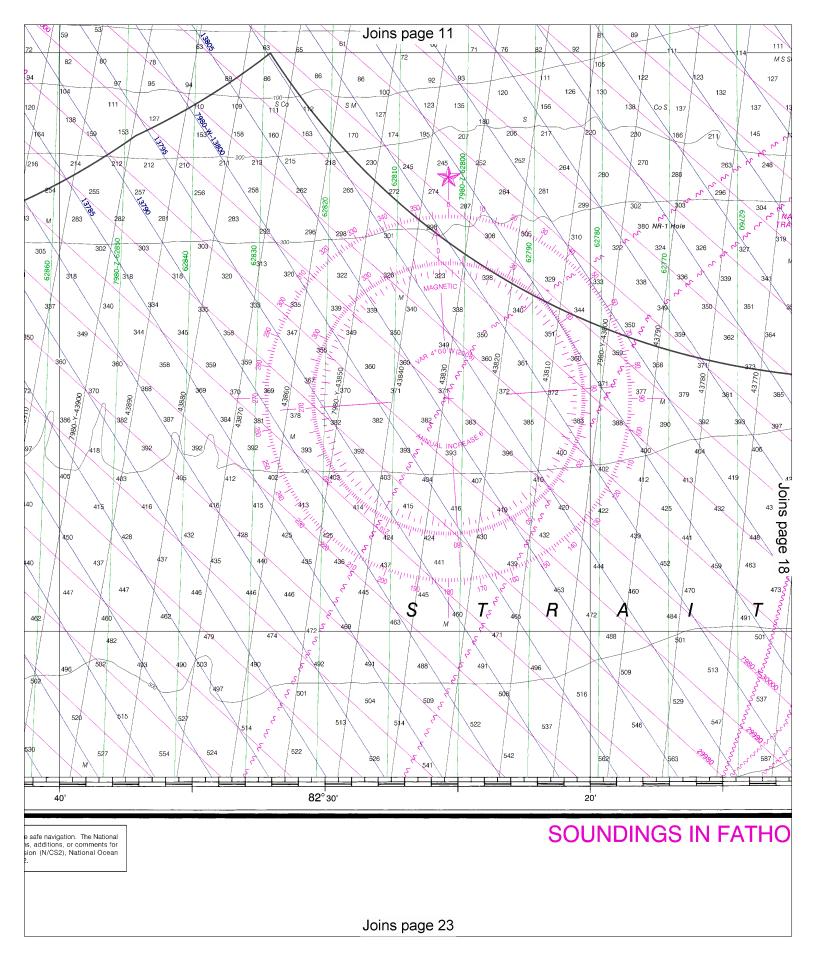
LORAN-C OVERPRINTED

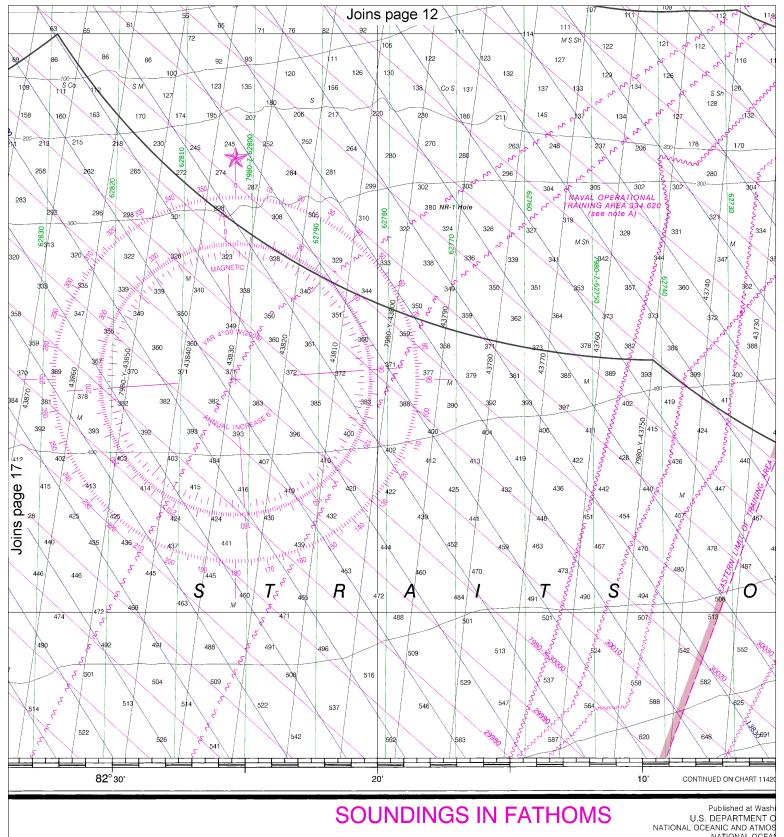
This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

This nautical chart has been designed to promote Ocean Service encourages users to submit corrections improving this chart to the Chief, Marine Chart Divisi, Service, NOAA, Silver Spring, Maryland 20910-3282.

Joins page 22



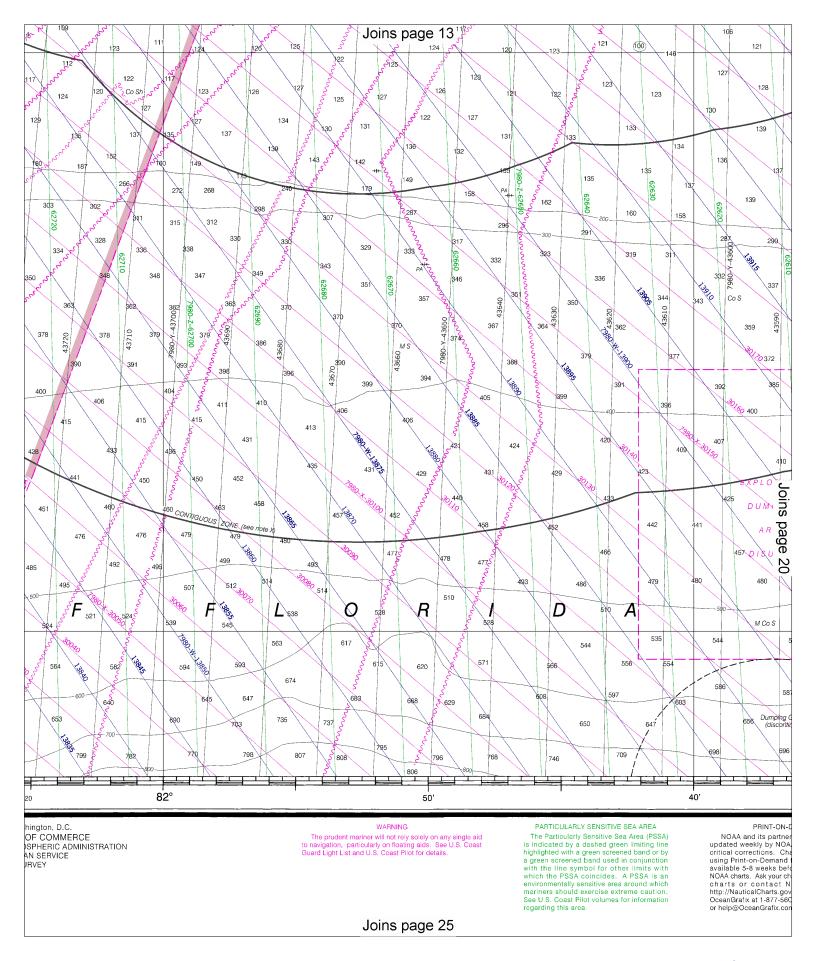


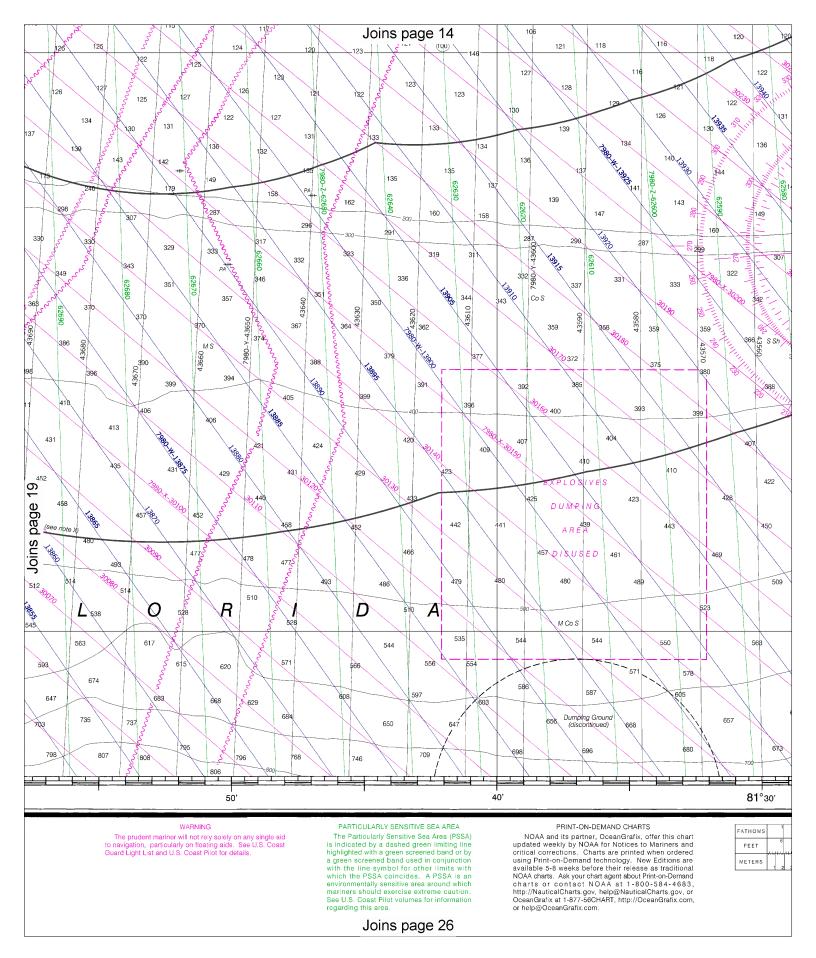


NATIONAL OCEANIC AND ATMOS NATIONAL OCEAN COAST SUF

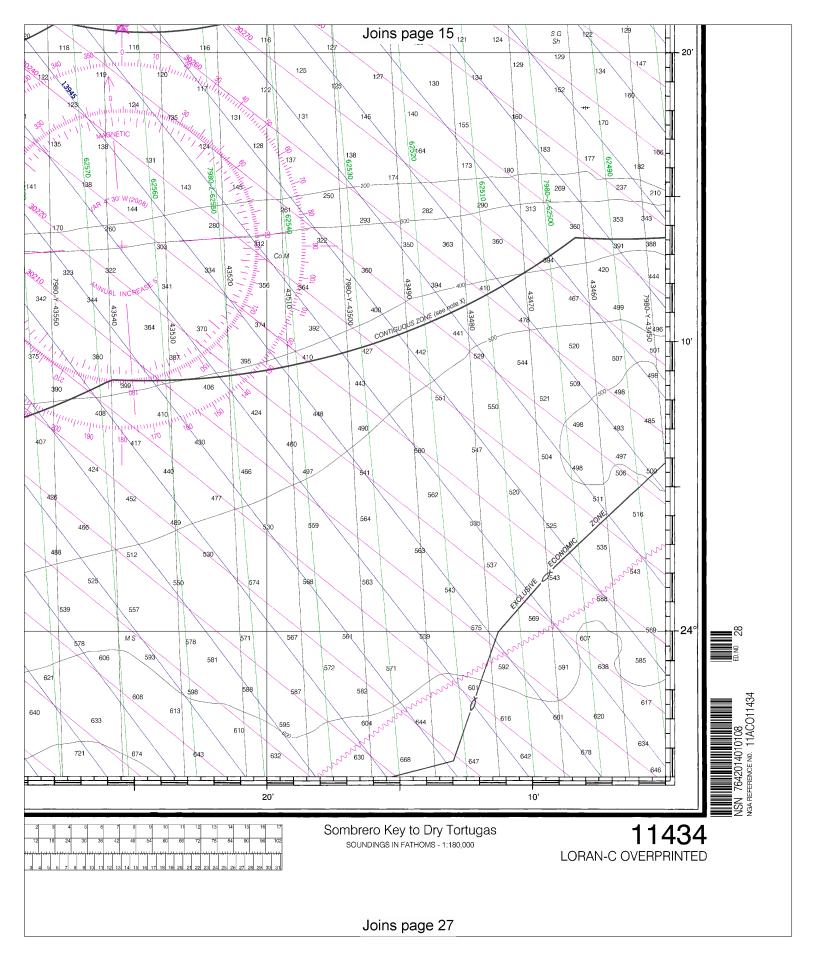
Joins page 24

18











VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here. Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of

Emergency; Number of People on Board.

- · Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!



NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

http://www.nws.noaa.gov/nwr/

Quick References

Nautical chart related products and information — http://www.nauticalcharts.noaa.gov

Online chart viewer — http://www.nauticalcharts.noaa.gov/mcd/NOAAChartViewer.html

Report a chart discrepancy — http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx

Chart and chart related inquiries and comments — http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs

Chart updates (LNM and NM corrections) — http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html

Coast Pilot online — http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm

Tides and Currents — http://tidesandcurrents.noaa.gov

Marine Forecasts — http://www.nws.noaa.gov/om/marine/home.htm

National Data Buoy Center — http://www.ndbc.noaa.gov/

NowCoast web portal for coastal conditions — http://www.nowcoast.noaa.gov/

National Weather Service — http://www.weather.gov/

National Hurrican Center — http://www.nhc.noaa.gov/

Pacific Tsunami Warning Center — http://ptwc.weather.gov/

Contact Us — http://www.nauticalcharts.noaa.gov/staff/contact.htm



For the latest news from Coast Survey, follow @nauticalcharts



This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.

